

APPENDIX A: AMENDMENTS TO CLAIMS

1. (Twice Amended) A contoured structural member, comprising:  
  
    an inner section having a continuous plurality of contoured [inner] layers comprising a metal-containing material;  
  
    an outer section having a continuous plurality of contoured [outer] layers comprising a metal-containing material; and  
  
    at least one intermediate layer having a ribbed structure connecting the [at least one] inner section [layer] and the [at least one] outer section [layer].
3. (Amended) The structural member of claim [2] 1, [further comprising an interior region defined by an inner surface of the at least one inner layer] wherein the inner section contains a layer comprising a composite material, the outer section contains a layer comprising a composite material, or the inner and outer sections contain a layer comprising a composite material.
4. (Twice Amended) [The structural member of claim 1,] A contoured structural member, comprising:  
  
    a plurality of contoured inner layers comprising a metal-containing material;  
  
    a plurality of contoured outer layers comprising a metal-containing material; and  
  
    at least one intermediate layer having a ribbed structure connecting the at least one inner layer and the at least one outer layer;  
  
    wherein the plurality of contoured inner layers is formed of a continuous sheet, the plurality of contoured outer layers is formed of a continuous sheet, or the plurality of inner contoured layers and the plurality of contoured outer layers are both formed from continuous sheets.

5. (Amended) The structural member of claim 1, wherein the metal-containing material [is a light metal] comprises magnesium, aluminum, titanium, zinc, molybdenum, or alloys thereof.

6. (Amended) The structural member of claim 5, wherein the [light metal] metal-containing material is aluminum or an alloy thereof.

7. (Amended) The structural member of claim 1, wherein the metal-containing material [is a heavy metal] comprises iron, copper, nickel, carbon steel, stainless steel, alloy steel, tin, or alloys thereof.

8. (Amended) The structural member of claim 7, wherein the metal-containing material is stainless steel or an alloy thereof.

9. (Amended) The structural member of claim 1, wherein the metal-containing material in the inner and [portion] outer section are the same.

11. (Amended) The structural member of claim 1, further comprising at least one layer or portion covering at least a portion of the [at least one] outer section [layer].

12. (Amended) A contoured structural member, comprising:  
[at least one] an inner section containing a contoured [inner] layer comprising a metal-containing material;

[at least one] an outer section containing a contoured [outer] layer comprising a composite material; and

at least one intermediate layer having a ribbed structure connecting the [at least one] inner section [layer] and the [at least one] outer section [layer].

14. (Canceled)

15. (Amended) [The structural member of claim 14,] A contoured structural member, comprising:

an inner section containing a contoured layer comprising a composite material;

an outer section containing a contoured outer comprising a metal-containing material;

and at least one intermediate layer having a ribbed structure connecting the inner section and the outer section, wherein the ribbed structure of the at least one intermediate layer comprises a honeycomb structure.

16. (Amended) A contoured structural member, comprising:

[at least one] an inner section containing a contoured [inner] layer comprising a metal-containing material;

[at least one] an outer section containing a contoured [outer] layer comprising a metal-containing material; and

at least one intermediate layer having a honeycomb structure connecting the [at least one] inner section [layer] and the [at least one] outer section [layer].

17. (Amended) The structural member of claim 16, [further comprising an interior region defined by an inner surface of the at least one inner layer] wherein the inner section contains a layer comprising a composite material, the outer section contains a layer comprising a composite material, or the inner and outer sections contain a layer comprising a composite material.

18. (Amended) A contoured structural member, comprising:

[at least one] an inner section containing a [contoured inner] layer comprising a metal-containing material;

[at least one] an outer section containing a [contoured outer] layer comprising a metal-containing material;

at least one intermediate layer having a [honeycomb] ribbed structure connecting the [at least one] inner section [layer] and the [at least one] outer section [layer]; [and an interior region defined by an inner surface of the at least one inner layer] wherein the inner section contains a layer comprising a composite material, the outer section contains a layer comprising a composite material, or the inner and outer sections contain a layer comprising a composite material.

19. (Amended) A closed, contoured structural member, comprising:

[at least one] an inner section containing a contoured [inner] layer comprising a metal-containing material;

[at least one] an outer section containing a contoured [outer] layer comprising a metal-containing material; and

at least one intermediate layer having a honeycomb structure connecting the [at least one] inner section [layer] and the [at least one] outer section; [layer; and an interior region defined by an inner surface of the at least one inner layer] wherein the inner section contains a layer comprising a composite material, the outer section contains a layer comprising a composite material, or the inner and outer sections contain a layer comprising a composite material.

20. (Amended) A closed, contoured structural member, comprising:

[at least one] an inner section containing a contoured [inner] layer comprising a metal-containing material;

[at least one] an outer section containing a contoured [outer] layer comprising a metal-containing material; and

at least one intermediate layer having a honeycomb structure being substantially contiguous with the [at least one] inner section [layer] and the [at least one] outer section [layer]; and

an interior region defined by an inner surface of the at least one inner layer].

21. (Amended) A method for making a contoured structural member, comprising:  
providing an inner section containing a [at least one inner] layer comprising a metal-containing material;

roll wrapping at least one intermediate layer over the [at least one] inner section [layer],  
the at least one intermediate layer having a ribbed structure; and

providing an outer section [at least one outer layer] over the at least one intermediate layer, the [at least one] outer section containing a layer comprising a metal-containing material;  
and

connecting the [at least one] inner and outer [layer] sections to the at least one intermediate layer.

22. (Twice Amended) [The method of claim 21,] A method for making a contoured structural member, comprising:

roll wrapping at least one inner layer comprising a metal-containing material over a substrate, [including] wherein the at least one inner layer comprises a plurality of layers;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure;

roll wrapping at least one outer layer over the at least one intermediate layer, the at least one outer layer comprising a metal-containing material; and

connecting the at least one inner and outer layer to the at least one intermediate layer.

23. (Twice Amended) [The method of claim 21,] A method for making a contoured structural member, comprising:

roll wrapping at least one inner layer comprising a metal-containing material over a substrate;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure;

roll wrapping at least one outer layer over the at least one intermediate layer, the at least one outer layer comprising a metal-containing material, [including] wherein the at least one outer layer comprises a plurality of layers; and

connecting the at least one inner and outer layer to the at least one intermediate layer.

34. (Amended) A contoured structural member made by the method comprising:  
providing at least one inner layer using a continuous sheet comprising a metal-containing material;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure; and

providing at least one outer layer over the at least one intermediate layer, the at least one outer layer containing a continuous sheet comprising a metal-containing material; and

connecting the at least one inner and outer layer to the at least one intermediate layer.

35. (Amended) A contoured structural member made by the method comprising:  
roll wrapping at least one inner layer using a continuous sheet comprising a metal-containing material over a substrate;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ribbed structure; and

roll wrapping at least one outer layer covering the at least one intermediate layer, the at least one outer layer containing a continuous sheet comprising a metal-containing material;

constraining the outer portion with a shrink-wrap material;

connecting the at least one inner and outer layer to the at least one intermediate layer; and

removing the shrink-wrap material and the substrate.

36. (Amended) A contoured structural member made by the method comprising:

roll wrapping at least one inner layer using a continuous sheet comprising a metal-containing material over a substrate;

roll wrapping at least one intermediate layer having a honeycomb structure to be substantially contiguous with the at least one inner layer; and

roll wrapping at least one outer layer to be substantially contiguous with the at least one intermediate layer, the at least one outer layer containing a continuous sheet comprising a metal-containing material;

constraining the outer portion with a shrink-wrap material;

connecting the at least one inner and outer layer to the at least one intermediate layer; and

removing the shrink-wrap material and the substrate.

41. (New) A contoured structural member, comprising:

a plurality of solid contoured inner layers comprising a metal-containing material;

a plurality of solid contoured outer layers comprising a metal-containing material; and

at least one intermediate layer having a ribbed structure connecting the at least one inner layer and the at least one outer layer.